THE <> SINC <> TIMES

VOLUME 3 ISSUE 1 FEB. 1987

Editors Corner by Steve Berg

Its time for a New Year to begin . We at the Sinc Times hope you had a happiest of holiday seasons. This past year has really been a year of change. Many of the supplies that were left from the "TIMEX" days seem to be running out , yet many new and exciting products still keep coming on the market. It will be interesting to watch and see what vendors will fade away and which continue with us diehards. I picked up a QL from Quantum Computing to see if it is really the great computer they say it is. So far I haven't been disappointed. You will find a short evaluation in this issue of the Sinc Times. It seems strange that first the TS 2068 was left high and dry by Timex and then in a similar vein the QL. Both are far ahead of their nearest competition. Both have capabilities that have never been explored. People are always amazed at what a 2068 can do. Sit down with an Atari or Commodore owner and show him what that little silver box can do . I can't even dream of where the 2068 would be today if the plug hadn't been pulled .(I am amazed at the 2068 even without Timex support.)
The QL seems destined for the same fate. Its so popular overseas it is being cloned, but look at the U.S.. (it reminds me of the Spectrum in England and the struggling 2068 here). From what I can tell so far it will run circles around the MS DOS machines. I guess time will tell if the story will be the same.

It is time for me to get off the soap box and let you dig into the Sinc Times. Please contact me with questions or comments at

The Sinc Times
6634 ORTOLE AVE
JACKSONVILLE, FL 32216
Attn. Editor

HAPPY NEW YEAR HAPPY NEW YEAR HAPPY NEW YEAR HAPPY NEW YEAR !!!!

<<< ABOUT THE SINC TIMES >>>

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PUBLISHER--NORTHEAST FLORIDA T/S USERS GROUP

LAYOUT-----STEVE BERG

THE NEF T/S USERS GROUP MEETS ON THE 2ND AND 4TH SATURDAYS OF EACH MONTH AT 10:00 AM . PLEASE MARK YOUR CALENDARS . CALL 904-737-1538 OR 904-384-8054 FOR FURTHER INFORMATION .

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Microface

TIMEX sinclair 1000

SINCLAIR ZX81

SINCLAIR QL

T/S 1016

T/S 2020

Sinclair ZX80

T/S 1500 COMPUTER

T/S 2040

TIMEX sinclair

2068

SINCLAIR SPECTRUM

Modeming in Jax by Tom Phillips

I'd first like to start out mentioning that I am by no means an "expert" or "authority" on the subject of modems. I have used my own modem almost on a daily basis for the past 6 months or so here in Jacksonville. With this, I'd like to share what I DO know. (ed. n. e-actually Tom knows alot about the local BBS) Unofficially, there are over 60 bulletin boards here in town (I will list some of them later in this article). There's lots of Commodore, Apple, Kaypro & IBM compatable support. Of course no direct support for us T/S users... until recently! Awhile back, a fellow club member, Perry Wilson, arranged to have a T/S message board added to the Bus Depot BBS! Now the sysop graciously agreed to a T/S FILES SECTION OF OUR VERY OWN!!. Now that we have some local support, LETS USE IT! As of now there are only a few of us using our section. Lets put it to good use. It would be a shame to see it disappear for lack of support. Just be careful not to upload any copywrited material! If you need help getting started just give me a call (904- 772-7265 after 7 P.M.). Last week I uploaded about 10 programs. This week another 6 or 7 so far. Some were utilities for the 2068 and of course some for the Aerco FD-68 disk system. Thanks to David Hill of the FD-68 Newsletter for his support here. By the way, drop Dave a line and he'll send you a complimentary issue. (FD-68 User P.O. Box 310-A Holland, Michigan 49423).

Getting back to the subject, the Bus Depot is a perfect board for our computers. It's display width is 32 col. so for us MTERM and MINI-XMOD users its great. This BBS is also a Fido Net System, meaning it's part of a large network of boards throughout the country. You can inexpensively send messages to other Fido boards and/or a particular user without actually connecting long distance with another board. The Sysop has offered to attend one of our meetings and fully explain the system. In the next issue of the SINC TIMES I will pass along to you anything new I've learned. The BBS list that follows is by no means complete. It's only intended to give you a start. Most of these boards have more complete local BBS lists available. All boards listed are operational as of this printing and all are up 24hrs a day, 7 days a week.

Apartment...........737-6654
May's...............725-7461
May's #2............725-1226
Asylum..............396-6670
Bus Depot...........262-6761
Casa Mi Amiga.......733-4515
Data West...........772-0912
Davey Jones Locker..241-1775
Dog House...........721-3804
Elsinore............725-6175
Elsinore #2.........725-6122
Heath/Zenith........725-4995
Jax On-Line.........737-2258
LE-RBBS.............272-2293
Neighborhood........721-0000
Serendipity.........721-1166
U.N.F. 646-2537

All numbers are in the 904 area code. Again, call these boards for a more complete listing. I believe the Apartment and Serendipity have quite large listings. Be sure to leave a message in our area when logging on to the Bus Depot so we know if there are any new users.
You can contact me with comments or questions at the editors address or at the phone number listed.

LOOK LOOK LOOK LOOK LOOK LOOK

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LOOK LOOK LOOK LOOK LOOK LOOK

TRIVIA 2000 (C) ...$19.95. Improved version! Features separate Trivia files (TRIVIAL NEEDS TAPES (C)), full color, sound, up to four players, T/S 2040 compatible, non repeating questions until all are used, plus instant scoresheet access. TRIVIAL NEEDS TAPES (C) are loaded in as a data file so MASTER program never becomes obsolete. Master tape comes with GENERAL category trivia included, other TRIVIAL NEEDS tapes available soon for under $10. Proposed titles include SUPER SLUETHS, SPORTS TRIVIA, MOVIE TRIVIA, and various EDUCATIONAL titles! Write: J. KUHN, 1707 KING St., JACKSONVILLE, Fl 32204

ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ

LAB PROGRAM 2000 ...$24.95. Complete ENVIRONMENTAL LABORATORY program that is fully interactive, Menu driven, T/S 20[illegible] compatible, HELP SCREENS, SCRATCHPAD window, and very User Friendly. Features tabular printout of BOD, COD, MLSS/ MLVSS/ SVI, TOTAL SUSPENDED SOLIDS, TOTAL SOLIDS, BOD/ COD CORRELATION STATISTICS. Another portion of program saves & formats all of days results to be listed or sent to printer at any time. Also [illegible] as two 16K T/S 1000 programs. JOHN KUHN, 1707 KING [illegible]ONVILLE, Fl. 32204

TS NEWS TO USE

by John Kuhn

Pete Fischer and Steve Ishii have finished and delivered their "GUIDE TO TS TELECOMMUNICATIONS" and it is certainly packed with all types of goodies for all TS/ZX and QL Telecommunicators. If your group has not received a copy that you can duplicate (not copywrited), Pete said he would be glad to supply individual copies for $2.00 + S&H. Send to: Pete Fischer, PO Box 2002, Tempe, AZ 85281. (EDS. NOTE-ITS WORTH $10)

Other goodies: According to our friends at SLUG user group, you may suppress call waiting on your home phone prior to using your modem by either pressing * 70 on a touch tone phone or dialing 1170 on a rotary phone. This will disable call waiting only on a call by call basis. All will reset upon hangup.

For all of you TS 1000/ ZX81 users, British support (software and magazines) may be found at: ARCTAN COMPUTER VENTURES, 1 FOXWELL SQUARE, SOUTHFIELDS, NORTHAMPTON NN3 5AT , U.K.

Quick note: Larken Electronics Disk interface will be offered with an improved DOS that BOOTS from disk, and is planning to offer a cartridge version of DOS that will run from the cartridge port and use no RAM. Larken is also working on a Snapshot feature of RAM (Like the Oliger Disk unit) that will allow almost any program to be saved to disk.

RMG Enterprises is carring TS 2068 and TS 1000 cut and stick on vinyl legends for $2.50/ sheet or $6.00/3 or 10 for 17.50. Please add $.25 postage per sheet. (Remember all of those inexpensive TI keyboards at Radio Shack that you have dreamed of hooking to your TS 2068 or TS 1000) Write to RMG at 1419 1/2 7th Street, Oregon City, OR 97045.

Another reminder, CATS user group has received thier TS 2068 SCLD chips and will be selling them for $20 each including postage and insurance or three or more for $18 each. They can also fill you in as to where to buy a surface mount socket for $12-$14. Address: CATS PO BOX 725, Bladensburg, Md 20710.

The following short routine when loaded into the Buffer of MIERM and RUN will set the Buffer Bytes used without having to figure Most Significant Byte and Least Significant Byte.

```
1 INPUT "# BYTES NEEDED",A: LET A=26710+A: RANDOMIZE A:
  POKE 23627, PEEK 23670: POKE 23628, PEEK 23671:
  RANDOMIZE USR 54016
```

After you have returned to MIERM look at your BUFFER Used to make sure you have entered the needed # of Bytes. What use is it you say? If you return to BASIC you can load in MC starting at 26710 and transfer it directly to another MIERM user. Receiving party would need to save it to tape and then reload it back to the proper address prior to running. I understand that the above routine will also work with Zebra's ZTERM if you change the 26710 to 31510 and the 54016 to 49770.

For those desiring to get on Compuserve, Lionel Playworld at Regency Court and Orange Park are selling the Starter Kits for $19.95. This includes four hours of online use time.

Another new BBS that is locally carring a TS SIG as well as offering programs to Download or Upload is the BUS DEPOT at (904) 262 6761. Try it out, the SYSOP has been very encouraging for TS users to make use of his board.

Got to run right now, but will catch you the next time around in the next segment of NTU #5. Remember, that you are quite welcome to send me your TS/ZX tidbits that will be passed on to help others by sending to:

JOHN KUHN
N.E.F. T/S U.G. TS NEWS TO USE
1707 King St.
Jacksonville, Fl 32204

NOTE TO OUR READERS AND NEWSLETTER EXCHANGES

THE PUBLICATION FREQUENCY OF THE SINC TIMES HAS NOT BEEN SET ON A PREDETERMINED BASIS,SO WHEN IT IS PUBLISHED,WE CAN BRING YOU A QUALITY NEWSLETTER AND AT THE SAME TIME KEEP OUR PRINTING AND MAILING COST TO A MINIMUM. WE WILL TRY TO PUT OUT THE SINC TIMES ON A TIMELY BASIS. YOUR COMMENTS AND POTENTIAL SINC TIMES ARTICLES ARE ALWAYS WELCOME . THE MAY BE ADDRESSED TO THE EDITOR.(ON FRONT PAGE)

PORTABLE COMPUTING BY STEVE BERG

RIGHT AFTER I GOT MY QL I HAD TO TAKE A PLANE TRIP. THE THOUGHT OF LEAVING A NEW COMPUTER AT HOME WAS REALLY TO MUCH. I QUICKLY MADE THE DECISION TO TAKE IT ALONG . MY WIFE HAS A SMALL BROTHER EP 22 TYPEWRITER PRINTER WITH A BUILT IN RS.232 PORT. AS THE QL ALSO HAS TWO SERIAL PORTS (RS.232) THE EP 22 WAS SET OUT TO GO ALSO . AFTER REACHING MY DESTINATION A RADIO SHACK STORE WAS QUICKLY LOCATED . I BOUGHT A SHORT LENGTH OF MULTI CONDUCTOR CABLE AND THE 2 NECESSARY CONNECTORS (A 9 PIN TO MATCH THE QL & A 25 PIN TO MATCH THE EP 22). THE QL BOOK SHOWS HOW BOTH SERIAL PORTS ARE WIRED UP. I CHOSE SER1 . IT TAKES ONLY 4 CONNECTIONS TO WIRE THE CABLE . AFTER QUICKLY REFERING TO THE EP 22 BOOK BOTH ENDS OF THE CABLE WERE SOLDERED (DOESN'T EVERYONE CARRY A SOLDERING IRON WHEN THEY TRAVEL?) AND THE CABLE ATTACHED TO THE PROPER PLUGS . QUILL WAS LOADED UP AND AFTER A PRINT DRIVER WAS CUSTOMIZED, I TYPED IN A FEW THINGS AND TOLD IT TO PRINT. BINGO! IT WORKED . BY USING THE HOTEL T.V. AND A SMALL PORTABLE PRINTER YOU CAN HAVE A PORTABLE COMPUTER WITH ALL THE COMFORTS OF HOME. IF YOU WOULD LIKE MORE INFO ON THE EP22 OR THE HOOK UP PLEASE CONTACT ME AT THE EDITORS ADDRESS.

SEE PAGE 13 FOR SAMPLE OF PRINT FROM EP22.

DAY OF THE WEEK

BY DICK WEISEL

The following program converts standard date to JULIAN, JULIAN to standard, and gives the day of the week. An example of the screen display is shown at the end of the program listing.

```
  10 FAST
  20 PRINT AT 21,0;"ENTER DATE -
 03/12/79 OR 79201"
  30 INPUT I$
  40 LET T$="312831303130313130313
13031"
  50 LET U$="SUNDAY    MONDAY
 TUESDAY   WEDNESDAY THURSDAY   F
RIDAY    SATURDAY    "
  60 IF LEN I$=5 THEN GOTO 250
  70 IF LEN I$<>8 THEN GOTO 620
  80 IF I$(3)<>"/" OR I$(6)<>"/"
 THEN GOTO 620
  90 LET M=VAL I$(1 TO 2)
 100 IF M<1 OR M>12 THEN GOTO 62
0
 110 LET D=VAL I$(4 TO 5)
 120 IF D<1 OR D>31 THEN GOTO 62
0
 130 LET Y=VAL I$(7 TO 8)
 140 IF Y<1 OR Y>99 THEN GOTO 62
0
 150 LET X=Y/4
 160 IF X=INT X THEN LET T$(3 TO
 4)="29"
 170 IF D>VAL T$(M*2-1 TO M*2) T
HEN GOTO 620
 180 LET J=D
 190 LET T=1
 200 IF T=M THEN GOTO 420
 210 LET X$=T$((T*2-1) TO (T*2))
 220 LET J=J+VAL X$
 230 LET T=T+1
 240 GOTO 200
 250 REM ************************
 260 REM JULIAN DATE WAS ENTERED
 270 REM ************************
 280 IF I$(1)<"0" OR I$(1)>"9" T
HEN GOTO 620
 290 IF I$(2)<"0" OR I$(2)>"9" T
HEN GOTO 620
 300 LET Y=VAL I$(1 TO 2)
 310 LET D=VAL I$(3 TO 5)
 320 LET J=D
 330 LET X=Y/4
 340 IF X=INT X THEN LET T$(3 TO
 4)="29"
 350 IF D<1 OR D>365 AND T$(3 TO
 4)="28" THEN GOTO 620
 360 IF D<1 OR D>366 AND T$(3 TO
 4)="29" THEN GOTO 620
 370 LET M=1
 380 IF VAL T$(M*2-1 TO M*2)>=D
THEN GOTO 420
 390 LET D=D-VAL T$(M*2-1 TO M*2
)
 400 LET M=M+1
 410 GOTO 380
 420 REM ************************
 430 REM DAY OF WEEK ROUTINE
 440 REM ************************
 450 LET S$=STR$ M+"/"+STR$ D+"/
"+STR$ Y
 460 LET W=Y*365.25+J
 470 IF X=INT X THEN LET W=W-1
 480 LET X=INT (W/7)*7
 490 LET W=INT W-X
 500 LET W=W*10+1
 510 LET W$=U$(W TO W+9)
 520 LET J=J+(Y*1000)
 530 CLS
 540 REM ************************
 550 REM PRINT RESULTS
 560 REM ************************
 570 PRINT AT 6,0;"DATE REQUESTE
D WAS  :";I$
 580 PRINT AT 9,0;"STANDARD DATE
IS     :";S$
 590 PRINT AT 10,0;"JULIAN DATE
IS     :";J
 600 PRINT AT 11,0;"DAY OF WEEK
IS     :";W$
 610 RUN
 620 CLS
 630 PRINT AT 20,0;"INVALID DATE
 - ";I$
 640 GOTO 20
 650 SAVE "DAYOFWEEK"
 660 RUN
```

```
DATE REQUESTED WAS :03/12/79

STANDARD DATE IS    :3/12/79
JULIAN DATE IS      :79071
DAY OF WEEK IS      :MONDAY


ENTER DATE - 03/12/79 OR 79201
```

MEMBERSHIP INFO

Annual membership dues in the NEF T/S Users group is $12.00 per year. Corresponding membership is encouraged and will entitle you to receive all SINC/TIMES newsletters that are published within a calendar year as well as priority in advertisement publication. The NEF T/S UG meets at the City of Jacksonville's Buckman St. Wastewater plant at 2221 Buckman St. in the saftey training room. The meetings are held on the SECOND and FOURTH saturdays of the month from 10:00 AM till 1:00 PM.

Membership checks or money orders should be made payable to the:

North East Florida T/S Users Group
and mailed to club treasurer:

Bill Fischer
419 Parkwood Dr.
Orange Park, Fl. 32073

SECRETARY's NOTES

I would like to take this opportunity to give a current update on our NEWSLETTER ex-change program. Active exchanges to date are as follows:

SINCUS
PO Box 3o
Johnson City, NY 13790

Triangle Users Group
206 James St.
Carrboro, NC 27510

LISTing
10 Idle Day Dr.
PO Box 438
Centerport, NY 11721

TAS BAM
C/O Paul Kalinowski
12736 N. 17th st. Apt. I-212
Tampa, Fl 33612

Westinghouse Z180/81 Users
C/O Jack Fogarty
Westinghouse MS 3525
PO Box 1521
Baltimore, MD 21203

Gainesville TUG
C/O Richard Cravy
3224 NW 30th Ave
Gainesville, Fl 32605

ENTERPRIZE
315 Inlet Dr.
Merritt Island, FL 32953

SLUG
4122 Wallingford Ln.
Louisville, Ky 48218

TSUG MILE HIGH CHAPTER
914 S. Victor Way
Aurora, CO 80012

Hampton Roads TS User Group
C/O David Alford
112 Kohler Crescent
Newport News, VA 23606

SYNAPSE
C/O Robert Neil
1525 N. Ashwicken Ct.
State College, Pa. 16801

QUARTERS
BJM Data Systems
4 Butterfly Drive
Hauppauge, NY 11788

Timex/ Sinclair
User Group of Cincinnati
11 Funston Lane
Cincinnati, Ohio 45218

Vancouver Sinclair Users Network
C/O Rod Humphrey's
2006 Highview Place
Port Moody, B.C. V3H 1N5

SINC-LINC
Tronto T/S Users Group
PO Box 7274 Stn. A
Tronto, Ontario
Canada M5W 1L9

PUG- Timeline2
C/O George Mockridge
263 Gateway, No. 107
Pacifica, CA 94044

G.U.T.S. de Mexico
C/O Adriana Rodriguez
Tlaloc 821
Col. Tlaxpana
C.P. 11370
Mexico, D.F.

C.A.T.S.
PO Box 725
Bladensburg, MD 20710

SF210G
PO Box 951
Boynton Beach, FL 33425

FD-68 USER
C/O Dave Hill
1159 South Shore Drive 812
Holland MI 49423

Zebra Systems
78-06 Jamaica Ave.
Woodhaven, NY 11421

EAB
3404 Pawnee Dr.
Alexandria, Va. 56308

TS Horizons
2002 Summit St.
Portsmouth, OH 45662

We would also like to welcome two new newsletters into our library exchange network:

Dallas T/S Amstrad UG
PO Box 153421
Irving, TX 75015

S.M.U.G.
PO Box 101
Butler, WI 53007

Any user group interested in exchanging N/L write to:
JOHN KUHN, 1707 KING ST., JACKSONVILLE, FLORIDA 32204

BLACK SCREEN/WHITE LETTERS ON YOUR TS1000/ZX81
BY STEVE BERG

SOME TIME AGO DENNING LANGSTON CAME TO SEVERAL OF OUR USER GROUP MEETINGS HERE IN JACKSONVILLE. HE WAS A TS1000 DIEHARD (I GUESS HE STILL IS) AND WAS QUITE FAMILIAR WITH MACHINE CODE PROGRAMING ON THE ZX81/TS1000.
AT ONE OF THOSE MEETINGS HE HANDED ME THIS NEAT LITTLE PROGRAM THAT GIVES YOU A BLACK SCREEN WITH WHITE LETTERS. DEPENDING ON HOW YOU SET IT UP, IT COULD BE CALLED AS A SUBROUTINE OR JUST BUILT INTO YOUR PROGRAMS TO ALWAYS GIVE YOU A BLACK SCREEN.
A REM STATEMENT 20 CHARACTERS LONG WOULD HOLD THIS NICELY.
AFTER YOU GET THIS LOADED IN THE MANNER OF YOUR CHOICE,A RAND USER 16514 SHOULD DO THE TRICK . THANKS DENNING WHERE EVER YOU ARE.

HERE ARE THE 20 POKES :

ADDRESS:	:DECIMAL NUMBER
16514	6
16515	24
16516	42
16517	12
16518	64
16519	35
16520	126
16521	254
16522	118
16523	40
16524	5
16525	238
16526	128
16527	119
16528	24
16529	245
16530	5
16531	32
16532	242
16533	201

OLIGER DISC DRIVE SYSTEM

BY ERIC JOHNSON

Disc drive systems for the Timex-Sinclair 2068, once the stuff of dreams for thousands of avid users, are now available from four different manufacturers. Each of these systems has it's own unique characteristics and will appeal to people with different needs, however the disc drive system from JOHN OLIGER CO. is probably the best combination of cost effectiveness, simplicity of use, and versatility.

The Oliger system, introduced slightly over a year ago, is an extensiom of his expansion board system, which has been available for the Timex 1000 and 2068 computers for several years. The hardware for the complete system consists of the four slot expansion board with 64 pin feed through on the rear and RGB interface, the disc controller board "A", and the rom/ram memory board "B".

The hardware and software has been designed to operate 1 to 4 drives in any combination of 3, 3 1/2, or 5 1/4 inch, single, double or quad density, single or double sided. Drive type is software selectable from BASIC. The entire system occupies an area behind the computer backplane approximately 4" wide, 4" long and 4" high.

Originally the DOS was to be written by Ray Kingsley but his version has yet to be completed. John Oliger therefore decided to write his own DOS. Version 1 was written with only limited Save and Load capabilities. Saves were accomplished by saving the entire 48.5K block of ram to disc. An optional non-maskable interrupt button on the "B" board allowed instant saving of a program at any point in the run. This method of saving was extremely fast and made saving of multiple part programs as simple as pressing two buttons. The disadvantage is that 'snap-shot' saves are very disc hungry. A 1K program requires as much disc space as a 40K program. A 400K double side, double density disc will hold only 8 saves. Enter JLO SAFE Version 2.

In answer to the limitations of Version 1, John rewrote the DOS. The most important facet of the new DOS is it's compatability With the Timex tape commands. SAVE / "X" , SAVE / "X" LINE n, SAVE / "X" CODE n,m , SAVE / "X" SCREEN$, SAVE / "X" DATA X(), SAVE / "X" DATA X$() and the related LOAD commands are direct replacements for the tape commands. Additional commands available are strictly disc related. CAT brings a directory of the files on disc to the screen. FORMAT / "X" formats the disc

TO BE CONTINUED NEXT ISSUE

PUT YOUR SPREADSHEET PROGRAM TO WORK AT TAX TIME

By Bill Stewart

Application programs are nice. They are usually menu driven and tell you exactly what to do at each step of the program. I looked at a program for Tax Returns called "Tax Return Helper" and it was a good program, accurate and fairly easy to use,but, it had to be loaded and used in differant sections for each form or schedule it supported. On Cassette it seemed to take forever. By the time you got the section loaded to do schedule B, you could almost have it finished in pencil.

I Like the computer as a tool that makes it easier for me to accomplish a given task. I don't like it if it requires me to spend so much time learning to use it that the net time saved is zero.

The spreadsheet programs available for the 2068 are fast loading even on cassete and you can set them up the way you want. I'm not completely satisfied with either one of mine but we have to work with what we have until something better comes out.

I've set up a model of Vu-Calc as a worksheet for tax returns and offer an example of it here for your use. I chose Vu-Calc over Omni-Calc for this application because even though Vu-Calc does not allow use of the logical operators AND,OR and NOT which can be used to put conditions in your model, it's formulas are adequate for the tax return math and I find it a little easier to use as far as data entry is concerned. Also, I like the way it handles text better than Omni-Calc.

The model is set up in sections of four clouums for each form or schedule,a blank column,and then four more columns. Set up as many sections as you need according to your tax situation. The four column section makes a nice presentation on the screen and the 2040 printer for hard copy backup. If you have an 80 column printer you can print two sections to the page and the blank columns give you a margin to use for any notes.

I dont try to do the entire tax return on the spreadsheet . Some of the schedules like W & Child Care are so simple that it doesn't seem worth the effort,so I do them seperately and input the results to the worksheet.

The formulas for the tax return worksheet are so simple that I will not outline them here. Just follow your tax form instructions and set up your model to add, subtract or multiply where required. I have the file on disc and would be glad to share it with any of the club members if they have problems seting up their own model.

Don't bother with the pennies, round off each individual entry to the nearest dollar. It's easier for you, it comes out the same at the end and the IRS even likes it.

Follow the example in setting up your sections so that you start with income first,then page 1 of the 1040,then deductions etc. so that each section calculates data to provide input for the following section and work from top to bottom and left to right to avoid any circular referances that might cause a problem in your calculations.

You will notice that the model has a separate section for husband and wife W-2 income. This gives you separate totals to be used in completing Schedule W Or Child Care if applicable.

When you total a scedule or section, go to the line on the tax return that requires that data and repeat the same formula .

When you do the medical deduction section, calculate the 5% of AGI in a separate column and check your total before entering it so that you do not end up with a negative value for total medical.

After you have a total of deductions on schedule A, enter the zero bracket amount and then get the total to be carried fo to form 1040 Pg 2, line 34a. I suggest that this total be entered to that line rather than calculated so that you will not have a negative value at that point.

Use the calculate funtion after each section. You will find that if you change an input at the beginning of the worksheet you will have to calculate several times to work it all the way to the end.

There are no tax tables in the model so you will have to look up the tax and enter it on form 1040 page 2. Other than that the model will do all of the math for you if it is set up correctly and will allow you to add, delete , or change date as you desire and will recalculate the results quickly,accurately and with a lot less effort than using the old pencil and eraser and readding everything because you forgot to enter a $9.95 statement from the bank for interest received the first time you did the return.

With all the changes forthcoming to the tax code in the coming years, if you do your own return, your going to need all the help you can get so put your computer to work on the detail work and then you can concentrate on the theory.

Tax Return Worksheet

1 2 3 4 5 6 7 8

Joe & Mary TaxPayer
9000 Main St.
Anytown, USA 00000
000-00-0000 000-00-0000

Filing Status	0
Exemptions	0

W-2 (H)	Wages	W/H	Fica
	0	0	0
	0	0	0
	0	0	0
	0	0	0
Total	0	0	0

W-2 (W)			
	0	0	0
	0	0	0
	0	0	0
	0	0	0
Total	0	0	0

Sched B Interest	0
	0
	0
	0
	0
	0
	0
	0
Total to Line 8	0

Sched B Dividend	0
	0
	0
	0
	0
	0
	0
Total to line 9a	0
Exclusion Line 9b	0
Total to Line 9c	0

COLUMNS 9 AND 10 WERE LEFT OFF TO SAVE SPACE (THEY ARE BLANK)

11 12 13 14

Schedule C Business	
Sales	0
Bgn Inven	0
Purch	0
Total	0
End Inv	0
Cost of Sales	0
Gross Profit	0
Adv Promo	0
Bank Chrgs	0
Depreciation	0
Insurance	0
Interest	0
Laun/Unif	0
Legal/Prof	0
Office Exp	0
Rent	0
Repair/Maint	0
Supplies	0
Taxes	0
Trav/Ent	0
Utl/Phone	0
Wages	0
Other	0
	0
	0
	0
	0
	0
	0
Total Deductions	0
Net Profit	0
Schedule SE	0
12.3 % SE Tax unless income exceeds 42,000	

15 16 17 18 19 20

Form 1040 Pg 1	
Wages	0
Interest	0
Dividends	0
	0
Business	0
Capital Gains	0
Other Gain/Loss	0
Fully Txbl Pensions	0
Other Pensions	0
Schedule E Income	0
	0
	0
	0
	0
	0
	0
Total Income	0
Adjustments	
	0
	0
IRA	0
	0
Schedule W	0
Total Adjustments	0
AGI	0

00

1 2 3 4 5 6 7 8 11 12 13 14 15 16 17 18 19 20

21	22	23	24	25	26	27	28	29	30
Schedule A Deductions				Form 1040 Page 2					
Prescription Drugs			0	AGI				0	
Drs,Dent,Hosp,Ins,etc			0	Schedule A				0	
Trans/Lodging			0	1/2 Charity if no A				0	
Other			0	AGI Minus A or Charit				0	
			0	Personal Exempts				0	
Total			0	Taxable Income				0	
5 % AGI		0	0						
Total Medical			0	Tax From Table				0	
Real Estate Tax			0	Credits					
Sales Tax			0	Child Care				0	
Other Taxes			0	Elderly				0	
Total Taxes			0	Energy				0	
				Political				0	
Home Int-Fin Inst			0	Investment				0	
Home Int-Individual			0	Other				0	
Cr Cds & Chg Accts			0	Total Credits				0	
Other Interest			0						
			0	Tax Minus Credits				0	
			0	Other Taxes				0	
			0	SE Tax				0	
Total Interest			0	Alt Min Tax				0	
				Recapture				0	
Cash Contributions			0	Other				0	
Other Contributions			0	Total Tax				0	
Carryover			0						
Total Contributions			0	Tax Witheld				0	
				Estimated Payments				0	
Casualty/Theft			0	EIC				0	
				Other				0	
Union/Prof Dues			0	Total Payments				0	
Tax Prep			0						
Other Misc Deductions			0	Overpaid or				0	
			0	Amount you owe				0	
			0						
			0						
			0						
Total Misc			0						
Total Deductions			0						
Enter Base Amount			0						
To Line 34a #92									

21 22 23 24 25 26 27 28 29 30

LOOK LOOK LOOK LOOK LOOK LOOK

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LOOK LOOK LOOK LOOK LOOK LOOK

THE SINCLAIR QL - FIRST IMPRESSIONS - BY STEVE BENO

AS MENTIONED IN THE EDITORIAL I BOUGHT A QL RECENTLY.
RATHER THAN TRY AND GIVE YOU A DETAILED REPORT TOO SOON MAYBE A FIRST IMPRESSIONS ARTICLE WOULD BE A LITTLE MORE IN ORDER ,THEN DOWN THE ROAD A REAL USERS REPORT CAN BE PUT TOGETHER.
AS MOST OF US HAVE , I OFTEN WONDERED WHAT A QL WAS LIKE.
ARE THE CARTRIDGE DRIVES ANY GOOD? ARE THEY FAST? DO THEY EAT TAPES? WHAT ABOUT THE FEEL OF THE KEYBOARD? DOES THE QL RUN HOT AND QUIET? DOES IT LOOK OR FEEL CHEAP?
I HAD ASK MYSELF THESE AND MANY OTHER QUESTIONS JUST LIKE SOME OF YOU HAVE. THE ANSWERS RECEIVED FROM OTHERS WHEN I QUESTIONED THEM ABOUT THE QL REALLY LEFT ME CONFUSED . SOME LOVE THE MACHINE ,OTHERS DON'T. FINALLY IT WAS TIME TO COME TO MY OWN CONCLUSIONS.
QUANTUM COMPUTING SEEMED TO BE PRETTY AGGRESSIVE ABOUT MARKETING THE QL SO A QUICK CALL TO FRANK TOEMAY AT QUANTUM PUT A QL ON THE WAY TO ME. IT ARRIVED A FEW DAYS LATER IN GOOD SHAPE. ALONG WITH THE QL I GOT THE RGB CABLE (IT'S SPECIAL AND HARD TO FIND) AND THE SUPER BASIC BOOK WRITTEN BY JAN JONES . ,WHO IS THE DESIGNER OF SUPERBASIC. THE QL WAS NOT A KIT AND CAME COMPLETE WITH THE USERS GUIDE (300 PLUS PAGES) AND ALL 4 PROGRAMS.
ALL IN ALL , INCLUDING SHIPPING , I ONLY SPENT $199.00 .THAT HAPPENS TO BE WHAT MY FIRST ZX MACHINE COST ME YEARS AGO.(NOT REALLY THAT LONG AGO EXCEPT IN COMPUTERS TECH.) SEVERAL CALLS TO QUANTUM TO ASK FRANK QUESTIONS ALWAYS GAVE ME EVEN MORE INFORMATION THAN I ASK FOR. ALSO INCLUDED WITH THE QL WAS THE FAMOUS FREEWARE CARTRIDGE WITH SOME REALLY NICE DEMOS AND UTILITIES ON IT. NOW IT WAS TIME TO ANSWER THE QUESTIONS .
I ASSEMBLED A CABLE TO RUN BETWEEN THE QL AND MY WIFES BROTHER EP 22 TYPEWRITER/PRINTER SO THERE WOULD BE A PRINTER TO OUTPUT TO AND LOADED MY COPY OF QUILL (NOTE I SAID COPY-THE FIRST THING THEY TELL YOU TO DO IS BACKUP THE FOUR PROGRAMS AND PUT THE ORIGINALS AWAY). AFTER PLAYING A WHILE THE BOOK CAME OUT AND I GOT SERIOUS ABOUT TRYING OUT SOME OF THE VARIOUS FUNCTIONS .
THIS IS REALLY AN EASY PROGRAM TO WORK WITH . YOU CAN GET COMFORTABLE WITH IT IN NO TIME . A QUICK LOOK AT THE OTHER THREE PROGRAMS SEEM TO INDICATE THEY ARE IN THE SAME LEAGUE AS QUILL.
OUTSIDE OF THE INCLUDED SOFTWARE THERE IS SUPERBASIC TO RECKON WITH . AT FIRST I WAS SOMEWHAT OVERWHELMED BY ITS COMPLEXITY.
AFTER READING THRU THE USERS MANUAL YOU QUICKLY REALIZE GOOD OLD BASIC IS STILL THERE IF THAT'S THE WAY YOU WANT TO PROGRAM IT BUT IF YOU REALLY WANT TO GET REAL FANCY ALL THE ADDITIONAL POWER OF SUPERBASIC IS AT YOUR FINGER TIPS . ALOT OF THE BASIC LISTINGS YOU HAVE FOR YOUR TS 2068 CAN BE TYPED IN AS IS OR WITH VERY LITTLE CHANGE AND RUN ON THE QL. QUANTUM ESTIMATES THERE ARE AROUND 25,000 LISTINGS IN SINCLAIR ,TIMEX/SINCLAIR AND OTHER COMPUTERS THAT COULD BE RUN ON THE QL (WOULD ANY ONE LIKE THE JOB OF STARTING TO COLLECT THEM) .
THE FREEWARE CARTRIDGE FROM QUANTUM HAS SOME INTERESTING PROGRAMS ON . THE SYZ BASE PROGRAM IS WINDOWING CONTROL AND A CLOCK PROGRAM ARE ROLLED INTO ONE. IT HAS A COMMAND THAT RUNS THE CLOCK COMPLETE WITH CHIMES THAT IS CALLED "TIMEX".
THE QL DEMO PROGRAM REALLY SHOWS OFF THE BEAUTIFUL GRAPHICS AND THE INCREDIBLE SPEED OF THIS MACHINE. THE SOUND KIND OF GETS TO YOU AFTER A SHORT PERIOD OF TIME. UNLIKE FAST SOUND OUTPUT OF SINCLAIR AND TIMEX/SINCLAIR COMPUTERS THE QL IS QUITE LOUD.
WELL , THIS IS AS FAR AS I CAN GO SPEAKING FROM PERSONAL EXPERIENCE ON THE QL. THE SINC TIMES WOULD WELCOME ANY CONTRIBUTIONS ON THE QL .OR ANY OTHER SINCLAIR-TIMEX/SINCLAIR [illegible] . PLEASE NOTE THE LISTING IN THIS ISSUE FOR THE QL.

CONTD IN NEXT ISSUE

SIZE_BASE

A LISTING FOR THE QL. USED WITH PERMISSION OF FRANK TOEMAY AND QUANTUM COMPUTING. IT MAY NOT BE DUPLICATED OR USED COMMERCIALLY WITHOUT PERMISSION . NOTES AT END OF LISTING.

```
30020 REMark            ;; QUANTUM COMPUTING, BOX 1280, DOVER, NJ. 07801 ;;
30030 REMark            ;;;;;;;;;;;;;;;;;; (201) 328-8846 ;;;;;;;;;;;;;;;;;
30040 REMark            ;;;;;;;;;;;;;; QMONIX SIZE_BASE Rev 7.9 ;;;;;;;;;;
                          ;;;;LUD=122486;;Compiled Procedure Version;;;;;;;;;
30050 :
30610 :
30620 DEFine PROCedure Yell
30630        BEEP -5,0,RND(5 TO 254),RND(1 TO 900),RND(-7 TO 7),RND(0 TO 6)
30640 END DEFine Yell
30650 :
30730 :
30740 DEFine PROCedure SetA
30747 DIM ran$(4),d$(2),q$(3),sb$(11),y$(25),Y1$(33),apm$(3),Msg$(66),Fm$(55)
                ,sb$(11),hr$(3),min$(3):END DEFine SetA
30760 :
30770 DEFine PROCedure time
30780        CLS#4:BORDER#4,1,7:REPeat TheTime:Timax:q$=INKEY$(0)
             :IF q$>'' AND CODE(q$)<>180:PAPER#4,0:CLS#4:RETurn
30790 END DEFine time
30800 :
30810 DEFine PROCedure DSV
30820        POKE_W 163980,14:POKE_W 163982,0
30830 END DEFine DSV
30840 :
30850 DEFine PROCedure Size8
30860        P0=6:P1=5:P2=0:P4=0:P5=180:P6=4
30870        OPEN#1,con:OPEN#2,con:OPEN#3,ser
30880        OPEN#4,scr_408x12a22x208
30890        INK#0,0:INK#1,0:INK#2,6
30900        PAPER#0,P0:PAPER#1,P1:PAPER#2,P2
30910        WINDOW#0,512,45,0,211:WINDOW#1,512,209,0,0:WINDOW#2,512,187,0,22
30920        Sweep 8
30930 END DEFine Size8
30940 :
30950 DEFine PROCedure Sweep(mv)
30970        SetA:MODE mv:DSV:startime=0:sec=1:ssec=1:apm$='':y$=FILL$('*',22)
30980        CSIZE#4,1,0
30985        BORDER#0,3,188:BORDER#2,2,21:BORDER#1,4,235:BORDER#4,1,7:CLS:CLS#4
30990 END DEFine Sweep
30995 :
31000 DEFine PROCedure size4
31010        P0=2:P1=4:P2=0:P4=0:P5=180:P6=4
31020        OPEN#1,con:OPEN#2,con:OPEN#3,ser
31030        OPEN#4,scr_236x12a135x207
31040        INK#0,7:INK#1,0:INK#2,7
31050        PAPER#0,P0:PAPER P1:PAPER#2,P2
31060        WINDOW#0,512,45,0,211:WINDOW#1,512,209,0,0
31068        WINDOW#2,512,187,0,22
31070        Sweep 4
31080 END DEFine size4
31090 :
```

AS WE WENT TO PRESS IT WAS BROUGHT TO MY ATTENTION THE QL LISTING HAS SOME OVERPRINTING OF LINES. THIS WILL BE CORRECTED IN THE NEXT ISSUE. WE REGRET THIS ERROR.

```
31100 DEFine PROCedure Timex
31110        IF CODE(INKEY$(0))=180:ssec=1:SetTime:GO TO 31150
31120        IF ssec<>sec AND sec>0:ssec=sec
31130        Y1$=DAY$&'. '&y$(6 TO 11)&', '&y$(1 TO 4)&' '&y$(13 TO 20)&' '&apm$
31140        PAPER#4,sec/8.6:INK#4,7-(sec/8.6):AT#4,0,0:PRINT#4,Y1$
31150        y$=DATE$:sec=y$(19 TO):hr$=y$(13 TO 14):min$=y$(16 TO 17)
             :day=y$(10 TO 11)
31160        min=min$:hr=hr$-12*(hr$>12):IF hr<10:y$(13 TO 14)=0&hr
                                         :ELSE y$(13 TO 14)=hr
31170        IF sec=1:BEEP min*40-5,59-min,:PAUSE 1+min/8:BEEP min*330-2,195+min
             :PAUSE 48
31180        IF min=0 AND sec>1 AND sec<4:BEEP:FOR ring=1 TO hr:PAUSE 77+ring
             :BEEP:PAUSE 20+ring*2
             :BEEP-(ring*10),12-ring,hr*ring*day,30+day-ring,13-ring,(hr-ring)/2
31190        IF hr$<12:apm$='AM':ELSE apm$='PM'
31200        IF (hr=0 OR hr=12) AND min<2 :FOR l=350 TO 1140:BEEP l*5,l*l/40
             :PAUSE 15-(l/80)
31210        IF min=30 AND sec=1:BEEP -10000,0,254,min*5,1,0:PAUSE 160
31220 END DEFine Timex
31230 :
31240 DEFine PROCedure SetTime
31250        CLS#0:PRINT#0\\,'You Are About to Set the TIME.'\,
             'Please Enter ALL NUMBERS As Requested...'
31260        PRINT#0\,'Hit Any Key to Continue OR'\,'HIT ESC to Discontinue...'
31270        PAUSE 20:PAUSE 20:q$=INKEY$(#0,-1):IF CODE(q$)=27:CLS#0:RETurn
31280        INPUT#0\\'Year: ='!yr\'Month: ='!mon\'Day: ='!day\
             'Hour (24 HR TIME): ='!hrs\'Minute: ='!min\'Second: ='!sec
31290        SDATE yr,mon,day,hrs,min,sec
31300 END DEFine SetTime
31310 :
```

THIS LISTING IS CALLED SIZE BASE . IT IS AN EXCELLENT OPERATING ENVIRONMENT, CONTAINING A CLOCK AND MANY OTHER USEFUL PROCEDURES. TRY SIZE4 AND SIZE8 TO SEE TWO OF THE THINGS THAT MAKE THIS A MUST. YOU COULD SEND A BLANK MICRODRIVE CART. TO FRANK TOEMAY AT QUANTUM FOR A WHOLE MDC FULL OF FREEWARE (INCLUDING SIZE BASE) . SEE HIS AD FOR ADDRESS.

CONTRIBUTORS IN THIS ISSUE OF THE SINC TIMES ARE:

FRANK TOEMAY(QUANTUM COMPUTING)
JOHN KUHN(NEF T/S USERS GROUP)
BILL STEWART(NEF T/S USERS GROUP)
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STEVE BERG(NEF T/S USERS GROUP)
ERIC JOHNSON(NEF T/S USERS GROUP)
DICK WEISEL(NEF T/S USERS GROUP)

EP 22 SAMPLE PRINTOUT

THIS IS A SAMPLE OF THE PRINT OUT FROM THE BROTHER EP 22 TYPEWRITER/PRINTER
IT WILL PRINT ON THERMAL PAPER AS WELL AS WITH A RIBBON ON PLAIN PAPER.
WE BOUGHT IT AT MAY COHENS ON SALE FOR $99.00 ABOUT 1 YEAR AGO.
++

THIS SPACE IS RESERVED FOR SOME MICRO/ACE AND ZX/80 ARTICLES AND LISTINGS.
WE WOULD REALLY APPRECIATE ANY HELP ANY READERS COULD GIVE US IN THIS AREA.

Ever Program On A Silver Platter??

How much would you expect to pay for a 32 bit MC 68000 computer that's a mainframe condensed down into a keyboard? How about $177.00!!?? If it makes you feel any better simply add a zero to the price when you order! But that's actually our price!!! The most powerful computer money can ever buy is now the most inexpensive computer money can buy!!! So don't buy the name! Buy the power!! The power is not in the name!

If you had the opportunity to work amongst Machine Code ROM Designers, VAX & UNIX wizards in a research laboratory, designing an MC 68000 based computer that's 2nd to none. . .

What would you come up with?? And what would you call it??

Well It's Already Been Done!!
They Called It The QL For The Quantum Leap It Is!!

Absolutely a Quantum Leap beyond what you know & use – and it's truly like Programming on a Silver Platter!!

The QL Desktop Minicomputer: Designed by SRL Labs, manufactured by Samsung. A total Quantum Leap beyond all the rest! Virtual Memory, Multitasking Job Control, Multiuser Networking, Drives in Cache Memory, with Automatic Directories & File Names up to 36 characters! Everything is built into ROM! QDOS, Networking, 32 Bit SuperBasic: a totally concurrent non-destructive environment. Unlimited quantities & lengths of: Variables, Program Lines, CONsoles & Buffers. Dynamic RAM Disking! Even a System Variables Brain Page Screen! Built-in DCE & DTE Serial Ports.

Imagine a 32 bit SuperBasic structured like Turbo Pascal, always there with QDOS in a UNIX-like multitasking job controlled environment with access to 32768 fully channeled windows, devices & files by EACH job! 3 Major Compilers exist for SuperBasic source alone! TURBO, SUPERCHARGE, LIBERATOR. Also runs "C", Pro Pascal, Pro Fortran 77, LISP, BCPL, 68000 Assemblers, JCL, APL, Forth-83, 65C02 or 8088 Cross Assembly. Generate native 68000 code. Compile SuperBasic source code or ANY other language and then multitask and control it in QDOS or even with SuperBasic in the Interpretor! The list of ALL the Superior Features would fill this entire journal!

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